Sequence listing:

SEQ ID No. 1.

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CONTENNESS SATETOCODE ACCUTENACE TOCCOCODER CANOTOCETT TOCANCOORA	180
TOCTOCTACT COCCOCCTO TCCCHOMOLA CAACAGTOOT TOATAACTO CTGAACAGTE	240
ACCUPATION CTACATOCIC CONCENTRIA COACTENTION TEXESTORIC GARGEGORICA	100
Proceeding Typyroceany distributed and controlly described and recontrolly	360
ANGROGARDT OCKOCTETTE TROOGERITO CTOGRACTOC RATOCGGCCA TTGRERGERG	420
CTOTTACTOC TOCTOGROUP ANTOCHICTE ACOTOCTTON TOGROTACCA AGANTORGES	480
MANAGECENT TOCCONCITO STITUTCOUNT TORNOCHECT TOCTOCAGNT STIGHTISTI	\$40
TOUTTOOCHE TEACTOCCCA COTOTTOCTO TOUATOCAMT COGAGOCCTA COTOCTOCCA	600
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CTTTOSCTCT TOGOGRATUTG GAGATTUANA TCATTUATAA ATTAATCTCC ATTCCGTACG	720
TEGRANTONE ATTUNDATES ATTOCKETT TROOTSTONA ACCADAGENT TETERTAGET	780
COCACAGATT CTACATTARG GOAGGTCAAA AATACAAGTC CCCTAAAAAT GCCTATGTTG	840
AMOUTGATOR CTCAMBEGEA ACCTATTICT TEGETIGETEE TECAMITACT GEAGGEACTE	900
TENCTOTEGA AGGITTOTOGE ACCACCAGIT TOCACGOTOA TOTGAAGTIT OCTGAGGTAC	960
TOGAGATGAT GEGAGGRANG GTTACATGGA CCGAGACTAG COTTACTOTT ACTCCCCCAC	1020
COCCOGRAGO ATTTOGGRAGO ARRENCETCA AGGOGRATICA TOTCARCATE ARCHAGATGO	1080
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COTTOCCOCA CTACTTCGAT GTGCTGAGCA CTTTCGTCAA GAATTAATAA AGCGTGCGAT	1440
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ACTACEACCE ACCITEMING ANDICATION CONTRACTOR CONTRACTOR TRACTAGE	1560
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CITCULITAC COLICITATO ITTOTOCACT CACACTALLA ALLALALLA ALLALL	1680
	1713
ALLEGANIA ALLEGANIA TITO	3.20

œJ									40 C	ln P						. 47
307 15	GIA	Thr	Val	Lys	CTC Leu	110	67Å 600	Ser Ser	Lye	25	Lev	Ser	AAC Aas	Arg	ATC Tie 30	95
Lou	Lev	Leu	77*	Ala 35	Leu	TOC	Glu Glu	ejy ecc	ACA Thr	The	AT	OTT Val	CA1	AAC Astr 45	Leu	143
teu CTG	ALC:	AGT Sar	GNO Glu 50	Jup	VAL	HTP	TAC TYT	ASG Mec SS	Lou	agy agg	AL.	TIC	AGG Arg	The	CIT	. 191
out	Cic	Ser 65	Val	QAA Glu	Ala Ala	, yeb Gyc	Lys 70	Ale	AL AL	lys	AGA	Ala 75	ANT	Val	Val	239
ety	30 30	Q1y	GLY	Lys Lys	TTC Phe	CCA P270 85	Val	GAG Glu	GAT Asp	GCT Ala	MA Lys 90	Glu	Glu	AeT CLC	CAG Gln	. 287
CTC Lau 95	TTC	TTG Leu	Cly	AAT Asn	OCT Ala 100	OJA OGY	act The	CCA Ala	ATG Het	CGG Arg 105	Pro	TTC	ACA The	Ala	GCT Ala 110	335
OTT Val	ACT	OCT Ala	OCT Ala	00T 01y 115	oga Gly	AAT Asn	œλ Ala	ACT The	TAC Tyr 120	OIG OIG	CIT	gat Mp	CJA CCY	GTA Val 125	CCA Pro	363
aga Arg	ATG Het	yld Ygg	GAG G1u 130	ADA Arg	520 200	ATT Ile	GJY GGC	0)C 135	ren 110	OTT Val	GTC Val	GCA	TTG Leu 140	lys	CAG Gln	431
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yrg	OTC Val 160	aat aan	GUA Gly	ATC Ile	GCA	ccc cly 165	CTA Leu	CCT FTO	oth oct	gjy ccc	aag Lys 170	GIC Val	aag Lye	CTO Leu	TCT Ser	527
GGC Gly 175	TCC Ser	MC	agc Ser	AGT Ser	CAG Gln 180	TAC Tyr	TTG Lau	AGT Set	GCC Ala	TTG Leu 185	CTG Leu	ATG Het	GCT Ala	OCT Ala	Pro 190	\$75
TTG Leu	oct Ala	CTT Leu	Gly	GAT Mp 195	oto Val	a ns Glu	ATT Ile	GAA Glu	ATC Ile 200	ATT Ile	gat Aed	iys Lys	TTA Leu	ATC Ile 205	TCC Ser	623
ATT Ile	CCG PTO	TAC Tyr	GTC Val 210	GAA Glu	ATG Net	ACA The	TTG Leu	AGA Arg 215	TTG Leu	ATG Het	GJU GXG	arg	TTT Phe 220	Gly	Vel GIG	671
aaa Lys	GCA Ala	GAG Glu 225	CAT His	TCT Ser	cat Asp	6 e z	766 777 230	gac Aup	AGA Arg	TTC Phe	īyr	ATT 110 235	and Lys	GGA Gly	GCT Gly	719

SEQ ID No. 2 (continuati n).

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	, YJ										The				7010 Val 270	#15
					dly					Gln					TIT	863
				alu					Lys						ACT	922
ACC Ser	Val	The Jos	Val	ACT	QJÅ QQC	CCA Pro	210 310	YLA COS	aya Gya	PTO	Phe	312 QA 000	Arg	Lys	CAC CAC	959
CTC	Lys J20	Хlа	ATT Ile	CAT Asp	GTC Val	140 125	STK Jak	MC Mn	ang Lys	HAL	230 330	ant Asp	ANT	Ala	ATG Net	1007
ACT Thr 335	Lou	AL AL	Aer	Vel Vel	000 Ala 340	CTC	TTT Phe	occ Ala	CAT Asp	000 01y 345	Pro CC3	YCY Tur	ALA ALA	ATC Ila	AGA Arg 350	1055
GAC Asp	GTG Val	YT a CCI	TCC Ser	TGG TEP 355	AGA	GTA Val	lys	GJU GAG	ACC Thr 360	Glu Glu	yrg	atg Met	GIT Val	GCG Ala 365) Ile	1103
yrg	ACG Thr	glu Glu	CTA Leu 170	ACC Thr	aag Lys	CIG	GIY GGA	0CA Ala 375	TCT Set	GIT Val	GIU GIU	gaa glu	380 @7Å @@@	CCG Pro	Asp	1151
TAC TYT	TGC Cys	ATC Ile J85	ATC Tle	ACG Thr	PTO CCG	Pro	390 390	aag Lys	CIG	AAC Aan	GIG Val	ACG Thr 395	Ala Ala	ATC Ile	SAC	1199
ACG Thr	TAC Tyr 400	yeb ayc	ALP GAC	CAC His	YES	ATG Mec 405	yje occ	DTA Sek	ALA OCC	TTC Pbe	TCC Ser 410	ren C11	Ala	OCC Ala	Cys	1247
GCC Ala 415	GAG Glu	GTC Val	CCC Pro	GIC Val	ACC The 420	ATC Ile	yrd CCC	yeb GYC	DE0	600 61y 425	cha 100	ACC Thr	yzā ÇQQ	aag Lys	ACC Thr 430	1295
Phe	820 CCC	GAC Asp	TAC Tyr	TTC Pho 435	GAT Aup	GTG Val	C7G Leu	Ser	ACT The 440	TTC Pha	GTC Val	aag Lys	AAT Aan			1337
TAA										-					•	1340

SEQ ID No. 3. Ale Cly Ale Clu Clu the Vel Lou Cln Pro the Lys Clu He Ser Cly The Val Lys Lou Fro Gly Ser Lys Ser Lou Ser Ask Ary The Lou Lou Lou Ala Ala Lou for Glu Gly the the Val Val Asp Aon Lou Lou Asn Ser Glu Asp Val His Tyr Not Lou Gly Ale Lou Arg Thr Lou Gly Lou 50 Ser Vel Glu Ala Asp tys Ala Ala Lys Asg Ala Vel Vel Cly Cys Cly Cly Lys The Pro Val Clu Mp Ala Lys Clu Clu Val Cla Lou Pho Los Cly As Ala Cly Thy Ala Met Ary Pro Los thr Ala Ala Val Thr Ala Ala Cly Cly Asa Ala The Tyr Val Lou Asy Cly Val Pro Arg Met Arg div Arg fro Tie dly Asp Les Val Val dly Les Lye din Les dly 110 Als Asp Val Asp Cys Phe Loss Gly Thr Asp Cys Pro Pro Val Arg Val 165 150 150 Ash Gly Ile Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser Gly Ser 175 The Ser Ser Oln Tyr Lou Ser Ala Lou Lou Her Ala Ala Pro Lou Ala 180 180 190 Lou City Asp Val Ciu Tie Ciu Tie Ile Asp Lys Leu Tie Ser Ile Pro Tyr Val Glu Net Thr Lau Ary Lou Net Glu Ary She Gly Val Lys Alm 215 $\,$ Glu His Ser Asp Ser Trp kep Ary Fhe Tyr Ile Lys Gly Gly Gln Lys 225 230 240 Tyr Lys Ser Pro Lys Asn Ala Tyr Val Glu Gly Asp Ala Ser Ser Ala 245 250 255 Ser Tyr Phe Leu Ala Gly Ala Ala The Thr Gly Gly Thr Val Thr Val 260 260 270Glu Gly Cye Gly The The Sar Lau Gla Gly Asp Val Lye Fha Ala Glu 275 $$280\,$ Val Lou diu Net Net Cly Ala Lys Val Thr Try Thr Glu Thr Ser Val 290 300 The Vel The Gly Pro Pro Ary Glu Pro Phe Gly Ary Lys His Leu Lys 305 310 Als The Asp Val Asn Net Asn Lys Net Pro Asp Val Als Not The Lou 325 $$ Ala Val Val Ala Leu Phe Ala Asp Gly Pro Thr Ala Ile Ary Asp Val 340 Ala Ser Try Arg Val Lyw Glu Thr Glu Arg Net Val Ala Ile Arg Thr 355 $_{\rm 360}$ Glu Lou The Lys Lou Cly Ala sar val Glu Glu Gly Fro Asp Tyr Cys 370 The The Thr Pro Pro Glu Love Lou Ann Val Thr Ala Ile Amp Thr Tyr 185 _ 395 400 Asy Asy His Arg Not Ala Not Ala Phe Ser Lou Ala Ala Cys Ala Glu 415 405Val Pro Val The Ile Arg Asp Pro Cly dye The Arg Live The Pro 420 425 Asp Tyr Phe Asp Val Lou Ser Thr Phe Val Lys Asn 415

; t

COME OCC COC CCC CAG CAG ATC OTO CTG CAG CCC ATC AAG CAG ATC Ala Gly Ala Glu Glu Fle Val Leu Gln Fro Fle Lys Glu Fle 1 10	47
TOO GOO ACC GIT AND CITE COE GOO TOO AAS TOO CIT TOO AAC COG ATC Ser Gly Thr Vel Lys Leu Pro Gly Ser Lys Ser Leu Ser Asn Arg 11e 15 20 25 30	95
Let Let Let Ala Ala Let Ser Glu Gly The The Val Val Asp Asn Let 35	143
CTG AAC AGT GAG GAT GTC CAC TAC ATG CTC GGG GCC TTG AGG ACT CTT Lou Asn Ser Glu Asp Val His Tyr Net Lou Gly Ala Lou Arg The Lou 50	191
GOT CTC TCT GTC GAA GCG GAC AAA GCT GCC AAA AGA GCT GTA GTT GTT Gly Leu Ser Val Glu Ala App Lys Ala Ala Lys Arg Ala Val Val GS .70	239
GCC TGT GGT GGA ANG TTC CCA GTT GAG GAT GCT ANA GAG GAA GTG CAG Gly Cys Gly Gly Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gla 80	287
CTC TTC TTG GGG AAT GCT GGA ATC GCA ATG COG TCC TTG ACA GCA GCT Leu Phe Leu Gly Aen ala Gly 11e Ala Met Arg Ser Leu Thr Ala Ala 95 100 100	335
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GOC TOO ATC AGO AGT CAG TAC TTG AGT GCC TTG CTG ATG GCT GCT GCT Gly Ser Ile Ser Sor Gln Tyr Lou Ser Ala Lou Lou Net Ala Ala Pro 175 180 190	\$7 5
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SEQ ID N . 4 (c ntinuation).

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	NOC Ber 255	OCA Ala	AGC Ser	TAT TYT	Phe	TTG Lou 260	OCT Ala	aly ogr	OCT Ala	OCA Ala	ATT 110 265	ACT The	gga gly	GOG	THE	GIG Val 270	815
•	act The	Avj Quo	Glu Glu	gly gly	101 Cys 175	Oly	ACC Thr	ACC Thr	AOT Box	170 Lau 280	CAG Gla	cor	r ev e	Val	Lya Lya 285	The	10
	XT Na	gju gju	aty Aty	CTG Lou CTG	gju Gju	Ket	ATT Net	QJA QQY	903 Ala 295	arg Lye	Val	ACA The	TCG	ACC The 300	CJ/A GYC	act The	911
	ngc Ses	OTA Val	ACT The 305	AFT	ACT Thr	ary ecc	CCA PTO	006 Pro 310	YEA	g)u ang	CCA PTO	TTT Pho	606 01y 315	WA	ani Lyo	HT: CYC	959
1	CTC Leu	Lys 320	oco.	ATT Ile	GAT Asp	AeT QLC	AAC AAD 325	DTG Mec	AAC Aan	lys	atg Met	DEC Pro 130	gat Asp	AT	OCC Ala	ATG Het	1007
•	NCT The 115	CTT Leu	OCT Ala	A#7 610	Asj Gii	000 Ala 340	CTC	TTT Phe	YTA	CAT Asp	OCC Gly 345	Pro	ACA The	AL A	ATC	AGA AFW J50	1055
(sac Map	A#1	GCT Ale	TCC Set	100 TEP 355	YZY	OTA Val	LY O	ejn eve	MCC Thr 360	Glu	YCC YCC	atg Het	Val	GCC Ala 365	ATC Ile	1103
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•	IYI IYI	cys Icc	ATC Ile 385	ATC Ile	ACG Thr	CCG Pro	CCG PEG	Glu Glu Jyo	Lys	CTG	AAC AAC	CTG Val	ACG The 195	GCG Ala	ATC	gac Asp	1199
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	TAA																1340

TAA

SEQ ID NO. 5. Ale dly Ale dlu clu the val Leu Gla Pro Ile Lys dlu the Ser dly The Val Lys Law Pra Gly See Lys See Lou See Asn Arg 11s Lou Lou 20 25 Low Als Low Ser Clu City The The Val Val hep hen Low Low Ash
35 Ser clu Asp Val His Tyr Met Lou Cly Ale Lou Ary The Lou Cly Lou ... 50 Ser Val did his hep bys his his bys Ary his Val Val Val dly Cys
65 Cly Cly Lye The Pro Val Clu Asp Ala Lye Clu Clu Val Cla Lou The Let Oly Asn Als Cly Ile Als Not Are Ser Let The Als Val The 100 Ale Ale Cly Cly Jun Ale The Tyr Val Lou Asp Cly Val Pro Ary Met Ard Glu Ard Pro Ile Gly Asp Lou Val Val Gly Lou Lys Gla Lou Gly 130 Ala Amp Val Amp Cya She Lau Oly Thir Amp Cya Pro Pro Val Ary Val 145 155 Asn Gly Ile Gly Gly Lau Pro Gly Gly Lys Val Lys Lau Ser Gly Ser 165 The Ser Ser Clh Tyr Lou Ser Ale Lou Lou Net Ale Ale Pro Lou Ale 180 Les Gly hap Val Glu Ile Glu Ile Ile Asp Lys Les Ile Ser Ile Pro 195 Tyr Val Olu Not Thr Law Arg Lou Not Glu Arg Fho Gly Val Lys Ala 210 225 Clu His Set Asp Set Trp Asp Arg She Tyr Ile Lye Cly Cly Cln Lye 225 Tyr Lys Ser Pro Lys Asn Ale Tyr Val Glu Gly Asp Ale Ser Ser Ale 255 Ser Tyr Fhe Leu Ala Cly Ala Ala Ile Thr Cly Cly Thr Val Thr Val 260 265 Glu Gly Cys Gly The The See Lou Gln Gly Asp Val Lye Pho Ala Glu 275 Val Lou Glu Net Net Gly Ala Lys Val Thr Try Thr Glu Thr Sar Val 290 The Vel The Gly Pro Pro Arg Glu Pro Phe Gly Arg Lys His Lau Lys 320 Ala Ile Asp Val Asn Mat Asn Lye Met Pro Asp Val Ala Met Thr Lou 335 Ale Vel Vel Ale Lou Fire Ale Amp Cly Pro the Ale Ile Ary Amp Vel 340 Ala Ser Trp Arg Val Lys Glu Thr Glu Arg Het Val Ala Ele Arg Thr 365 Glu Lou The Lys Lou Gly Ala Ser Val Glu Glu Gly Pro Asp Tyr Cys 370 380 The The The Pro Pro Glu Mys Lou Asm Val The Ala Ile Asp The Tyr 395 - 350 400 Asp hep his Ary Net Ala Net Ala Phe Ser Leu Ala Ala Cys Ala Glu-405 415 Val Pro Val the lie Arg Amp Pro Gly Cye The Arg Lye The Pro 420 Asp Tyr Phe Asp Val Lou Ser Thr Phe Val Lys Asn 415

SEQ ID No. 6.

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SEQ ID No. 7.

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 CHAUBET, Nicole
 GIGOT, Claude (deceased)
- <120> ISOLATED DNA SEQUENCE CAPABLE OF SERVING AS REGULATORY ELEMENT IN A CHIMERIC GENE WHICH CAN BE USED FOR THE TRANSFORMATION OF PLANTS
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tgt Cys 80	ggt Gly	gga Gly	aag Lys	ttc Phe	cca Pro 85	gtt Val	gag Glu	gat Asp	gct Ala	aaa Lys 90	gag Glu	gaa Glu	gtg Val	cag Gln	ctc Leu 95	290
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aaa Lys 240	tac Tyr	aag Lys	tcc Ser	cct Pro	aaa Lys 245	aat Asn	gcc Ala	tat Tyr	gtt Val	gaa Glu 250	ggt Gly	gat Asp	gcc Ala	tca Ser	agc Ser 255	770
gca	agc	tat	ttc	ttg	gct	ggt	gct	gca	att	act	gga	aaa	act	gtg	act	818

Ala	Ser	Tyr	Phe	Leu 260	Ala	Gly	Ala	Ala	Ile 265	Thr	Gly	Gly	Thr	Val 270	Thr	
					acc Thr											866
					atg Met											914
					cca Pro											962
					aac Asn 325											1010
					ctc Leu											1058
gtg Val	gct Ala	tcc Ser	tgg Trp 355	aga Arg	gta Val	aag Lys	gag Glu	acc Thr 360	gag Glu	agg Arg	atg Met	gtt Val	gcg Ala 365	atc Ile	cgg Arg	1106
					ctg Leu											1154
tgc Cys	atc Ile 385	atc Ile	acg Thr	ccg Pro	ccg Pro	gag Glu 390	aag Lys	ctg Leu	aac Asn	gtg Val	acg Thr 395	gcg Ala	atc Ile	gac Asp	acg Thr	1202
tac Tyr 400	gac Asp	gac Asp	cac His	agg Arg	atg Met 405	gcc Ala	atg Met	gcc Ala	ttc Phe	tcc Ser 410	ctt Leu	gcc Ala	gcc Ala	tgt Cys	gcc Ala 415	1250
					atc Ile											1298
					gtg Val								taa			1340

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ΠJ

Thr	Val	Lvs	Leu	Pro	Gly	Ser	Lys	Ser	Leu	Ser	Asn	Arg	Ile	Leu	Leu
		•	20		-			25					30		

- Leu Ala Ala Leu Ser Glu Gly Thr Thr Val Val Asp Asn Leu Leu Asn 40 45
- Ser Glu Asp Val His Tyr Met Leu Gly Ala Leu Arg Thr Leu Gly Leu 50 55 60
- Ser Val Glu Ala Asp Lys Ala Ala Lys Arg Ala Val Val Gly Cys
 70 75 80
- Gly Gly Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gln Leu Phe 85 90 95
- Leu Gly Asn Ala Gly Thr Ala Met Arg Pro Leu Thr Ala Ala Val Thr
- Ala Ala Gly Gly Asn Ala Thr Tyr Val Leu Asp Gly Val Pro Arg Met
- Arg Glu Arg Pro Ile Gly Asp Leu Val Val Gly Leu Lys Gln Leu Gly
 130 135 140
- Ala Asp Val Asp Cys Phe Leu Gly Thr Asp Cys Pro Pro Val Arg Val 145 150 155 160
- Asn Gly Ile Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser Gly Ser 165 170 175
- Ile Ser Ser Gln Tyr Leu Ser Ala Leu Leu Met Ala Ala Pro Leu Ala 180 185 190
- Leu Gly Asp Val Glu Ile Glu Ile Ile Asp Lys Leu Ile Ser Ile Pro 195 200 205
- Tyr Val Glu Met Thr Leu Arg Leu Met Glu Arg Phe Gly Val Lys Ala 210 215 220
- Glu His Ser Asp Ser Trp Asp Arg Phe Tyr Ile Lys Gly Gly Gln Lys 225 230 235
- Tyr Lys Ser Pro Lys Asn Ala Tyr Val Glu Gly Asp Ala Ser Ser Ala 245 250 255
- Ser Tyr Phe Leu Ala Gly Ala Ala Ile Thr Gly Gly Thr Val Thr Val 260 265 270
- Glu Gly Cys Gly Thr Thr Ser Leu Gln Gly Asp Val Lys Phe Ala Glu
- Val Leu Glu Met Met Gly Ala Lys Val Thr Trp Thr Glu Thr Ser Val 290 295 300

Thr 305	Val	Thr	Gly	Pro	Pro 310	Arg	Glu	Pro	Phe	Gly 315	Arg	Lys	His	Leu	Lys 320	
Ala	Ile	Asp	Val	Asn 325	Met	Asn	Lys	Met	Pro 330	Asp	Val	Ala	Met	Thr 335	Leu	
Ala	Val	Val	Ala 340	Leu	Phe	Ala	Asp	Gly 345	Pro	Thr	Ala	Ile	Arg 350	Asp	Val	
Ala	Ser	Trp 355	Arg	Val	Lys	Glu	Thr 360	Glu	Arg	Met	Val	Ala 365	Ile	Arg	Thr	
Glu	Leu 370	Thr	Lys	Leu	Gly	Ala 375	Ser	Val	Glu	Glu	380	Pro	Asp	Tyr	Cys	
Ile 385	Ile	Thr	Pro	Pro	Glu 390	Lys	Leu	Asn	Val	Thr 395	Ala	Ile	Asp	Thr	Tyr 400	
Asp	Asp	His	Arg	Met 405	Ala	Met	Ala	Phe	Ser 410	Leu	Ala	Ala	Cys	Ala 415	Glu	
Val	Pro	Val	Thr 420	·Ile	Arg	Asp	Pro	Gly 425	Cys	Thr	Arg	Lys	Thr 430	Phe	Pro	
Asp	Tyr	Phe 435	Asp	Val	Leu	Ser	Thr 440	Phe	Val	Lys	Asn					
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	L> CI		(133	7) .	-		-						•			
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ggc Gly	acc Thr	gtc Val	aag Lys	ctg Leu 20	ccg Pro	Gly 999	tcc	aag Lys	tcg Ser 25	ctt Leu	tcc Ser	aac Asn	cgg Arg	atc Ile 30	ctc Leu	98
cta Leu	ctc Leu	gcc Ala	gcc Ala 35	ctg Leu	tcc Ser	gag Glu	gly ggg	aca Thr 40	aca Thr	gtg Val	gtt Val	gat Asp	aac Asn 45	ctg Leu	ctg Leu	146
aac Asn	agt Ser	gag Glu 50	gat Asp	gtc Val	cac His	tac Tyr	atg Met 55	Leu	Gly	gcc	ttg Leu	agg Arg 60	act Thr	ctt Leu	ggt Gly	194
ctc	tct	atc	gaa	gcg	gac	aaa	gct	gcc	aaa	aga	gct	gta	gtt	gtt	ggc	242

Leu	Ser 65		Glu	Ala	Asp	Lys 70	Ala	Ala	Lya	Arg	Ala 75		Val	Val	Gly	
	Gly				cca Pro 85			-			Ğlu					290
				-	gga Gly		_	_		Ser			-		_	338
					aat Asn									Pro		386
			Arg		att Ile	Gly										434
					tgt Cys											482
					999 Gly 165											530
					tac Tyr	-	_	_		_					_	578
					gag Glu											626
					aca Thr											674
					agc Ser											722
		-			aaa Lys 245		_		_	_		-	_			770
					gct Ala											818
					acc Thr											866

gag g Glu Y	gta Val	ctg Leu 290	gag Glu	atg Met	atg Met	gga Gly	gcg Ala 295	aag Lys	gtt Val	aca Thr	tgg Trp	acc Thr 300	gag Glu	act Thr	agc Ser	914
gta a Val i	act Thr 305	gtt Val	act Thr	ggc	cca Pro	ccg Pro 310	cgg Arg	gag Glu	cca Pro	ttt Phe	999 Gly 315	agg Arg	aaa Lys	cac His	ctc Leu	962
aag 9 Lys 1 320	gcg Ala	att Ile	gat Asp	gtc Val	aac Asn 325	atg Met	aac Asn	aag Lys	atg Met	cct Pro 330	gat Asp	gtc Val	gcc Ala	atg Met	act Thr 335	1010
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acg g	gag Glu	cta Leu 370	acc Thr	aag Lys	ctg Leu	gga Gly	gca Ala 375	tct Ser	gtt Val	gag Glu	gaa Glu	380 Gly 333	ccg Pro	gac Asp	tac Tyr	1154
tgc a	atc Ile 385	atc Ile	acg Thr	ccg Pro	ccg Pro	gag Glu 390	aag Lys	ctg Leu	aac Asn	gtg Val	acg Thr 395	gcg Ala	atc Ile	gac Asp	acg Thr	1202
tac g Tyr 2 400	gac Asp	gac Asp	cac His	agg Arg	atg Met 405	gcg Ala	atg Met	gcc Ala	ttc Phe	tcc Ser 410	ctt Leu	gcc Ala	gcc Ala	tgt Cys	gcc Ala 415	1250
gag g	gtc Val	ccc Pro	gtc Val	acc Thr 420	atc Ile	cgg Arg	gac Asp	cct Pro	999 Gly 425	Cya	acc Thr	cgg Arg	aag Lys	acc Thr 430	ttc Phe	1298
ccc (gac Asp	tac Tyr	ttc Phe 435	gat Asp	gtg Val	ctg Leu	agc Ser	act Thr 440	ttc Phe	gtc Val	aag Lys	aat Asn	taa			1340

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Leu Ala Ala Leu Ser Glu Gly Thr Thr Val Val Asp Asn Leu Leu Asn 35 40 45

Ser Glu Asp Val His Tyr Met Leu Gly Ala Leu Arg Thr Leu Gly Leu 55 Ser Val Glu Ala Asp Lys Ala Ala Lys Arg Ala Val Val Gly Cys Gly Gly Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gln Leu Phe Leu Gly Asn Ala Gly Ile Ala Met Arg Ser Leu Thr Ala Ala Val Thr 105 Ala Ala Gly Gly Asn Ala Thr Tyr Val Leu Asp Gly Val Pro Arg Met 125 115 Arg Glu Arg Pro Ile Gly Asp Leu Val Val Gly Leu Lys Gln Leu Gly 135 130 Ala Asp Val Asp Cys Phe Leu Gly Thr Asp Cys Pro Pro Val Arg Val 155 Asn Gly Ile Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser Gly Ser 170 Ile Ser Ser Gln Tyr Leu Ser Ala Leu Leu Met Ala Ala Pro Leu Ala 185 180 Leu Gly Asp Val Glu Ile Glu Ile Ile Asp Lys Leu Ile Ser Ile Pro Tyr Val Glu Met Thr Leu Arg Leu Met Glu Arg Phe Gly Val Lys Ala 215 210 Glu His Ser Asp Ser Trp Asp Arg Phe Tyr Ile Lys Gly Gln Lys 235 225 Tyr Lys Ser Pro Lys Asn Ala Tyr Val Glu Gly Asp Ala Ser Ser Ala Ser Tyr Phe Leu Ala Gly Ala Ala Ile Thr Gly Gly Thr Val Thr Val Glu Gly Cys Gly Thr Thr Ser Leu Gln Gly Asp Val Lys Phe Ala Glu 280 Val Leu Glu Met Met Gly Ala Lys Val Thr Trp Thr Glu Thr Ser Val Thr Val Thr Gly Pro Pro Arg Glu Pro Phe Gly Arg Lys His Leu Lys 305

Ala Val Val Ala Leu Phe Ala Asp Gly Pro Thr Ala Ile Arg Asp Val

Ala Ile Asp Val Asn Met Asn Lys Met Pro Asp Val Ala Met Thr Leu

330

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340 345 350

Ala Ser Trp Arg Val Lys Glu Thr Glu Arg Met Val Ala Ile Arg Thr 355 360 365

Glu Leu Thr Lys Leu Gly Ala Ser Val Glu Glu Gly Pro Asp Tyr Cys 370 375 380

Ile Ile Thr Pro Pro Glu Lys Leu Asn Val Thr Ala Ile Asp Thr Tyr 385 390 395 400

Asp Asp His Arg Met Ala Met Ala Phe Ser Leu Ala Ala Cys Ala Glu 405 410 415

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